

AQUATIC OLIGOCHAETA OF THE AZORES AND MADEIRA ¹

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The terrestrial Oligochaeta of the Azores have been discussed by Sciacchitano (1964). The present list of identifications is based on the aquatic Oligochaeta collected by the Lund University Expedition to the Azores and Madeira in 1957, and I am indebted to Professor P. Brinck for access to the collection and for his assistance with the presentation of this note.

LOCALITIES

A. Loc. 4 to Loc. 108, Azores.

- Loc. 4. São Miguel. Charco da Madeira, 6 km. N of Ponta Delgada, 1.III.57. Small lake.
- Loc. 12. São Miguel. Fonte Grande, SE of Feteiras, water trough, 6.III.57.
- Loc. 16. São Miguel. Pond 500 m. E of Lagoa do Pau Pique, 7.III.57.
- Loc. 21. São Miguel. Well 1 km. WSW of Porto Formoso, 9.III.57.
- Loc. 22. São Miguel. Lagoa das Furnas, 10.III.57. Lake shore.
- Loc. 33. São Miguel. Tanque 1 km. SE of Lagoa do Congro, 16.III.57. Pond.
- Loc. 34. São Miguel. Lagoa do Congro, 16.III.57. Lake shore.
- Loc. 36. São Miguel. Fonte at Casas Telhadas, SW of Ribeira Grande, 18.III.57. Well.
- Loc. 37. São Miguel. Ribeira Seca, W of Ribeira Grande. Spring, 18.III.57.

1) Report 55 from the Lund University Expedition in 1957 to the Azores and Madeira.

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- Loc. 49. Santa Maria. Valverde. Stream, 20.III.57.
 Loc. 51. São Miguel. Lagoa Azul, Caldeira das Sete Cidades, 22.III.57. From lake bottom at about 20m. depth.
 Loc. 58. São Miguel. Lagoa das Furnas, 24.III.57. Lake bottom at 10-12m. depth.
 Loc. 90. Faial. Pool 1 km. ESE of Cabeço do Fogo, 4.IV.57.
 Loc. 102. Pico. 10 km. NNW of Lajes, 9.IV.57. Pool at 675 m. alt.
 Loc. 105. Faial. Caldeira, stream, 10.IV.57.
 Loc. 108. Flores. Ribeira d'Além da Fazenda, stream, 14.IV.57.
 B. Loc 114. Madeira. Arieiro Mountains, stream at 1700 m., 21.IV.57.

Family *Lumbriculidae*

Genus *Lumbriculus* Grube, 1844

Lumbriculus variegatus (Müller, 1774)

Immature specimens thought to belong to this common oligochaete were found at Loc. 22, 33, 36, and 105. This is the only truly cosmopolitan lumbriculid as other species are limited to the holarctic at least.

Family *Naididae*

Genus *Chaetogaster* von Baer, 1827

Chaetogaster sp.

Loc. 34. Species in this genus are difficult to separate on the basis of small numbers of preserved specimens.

Genus *Nais* Müller, 1773

Nais communis Pignet, 1906 or *N. variabilis* Pignet, 1906

Specimens attributable to one or other (or both) of these species were found at Loc. 16, 36, 90 and 114. Accurate determinations require better material than that available.

Both species have a cosmopolitan distribution.

Nais elinguis Müller, 1774

This species has unmistakable needle setae. It was found at localities 21, 49, 51, 108.

Distribution: Cosmopolitan.

Genus *Dero* Oken, 1815

Dero pectinata Aiyer, 1929

The species was found at Loc. 12 and 33. It has been found in mate-

rial from Southern India, Australia, the West Indies and in the Congo, Africa:

Genus *Allonais* Sperber, 1948

Allonais paraguayensis (Michaelsen, 1905)

Found only at Loc. 114.

Distribution: N and S America, Africa, E and S Asia.

Family *Tubificidae*

Genus *Tubifex* Lamarck, 1816

Tubifex tubifex (Müller, 1774)

Loc. 12, 33, 37, 51, 102.

Distribution: Cosmopolitan.

Genus *Limnodrilus* Claparède, 1862

Limnodrilus hoffmeisteri Claparède, 1862

Loc. 33, 37, 58, ?36.

Distribution: Cosmopolitan.

At locality 4 a specimen totally devoid of setae was obtained. This condition is known in the enchytraeid genus *Achaeta* but the specimen was not identified.

The limnic fauna is poor, with little sign of endemism and the short list is almost entirely restricted to cosmopolitan species. An account of the aquatic Oligochaeta known from Africa to date was published by Brinkhurst (1966) and some recent additions to this list and comments on other subsequent publications is in preparation. These lists demonstrate the diverse fauna known from Africa in general in contrast to the list from the Azores.

REFERENCES

- Brinkhurst, R. O.:
1966. A contribution towards a revision of the aquatic Oligochaeta of Africa.
Zool. Afr. 2, 131-166.
- Sciacchitano, I.:
1964. Oligochaeta des Açores (Part). *Bol. Mus. Mun. Funchal* 18 (72),
123-128.